

Badamid® LC70 M30 TM-Z3

Polyamide 6 + PA 66/6

Bada AG

Message:

Badamid® LC70 M30 TM-Z3 is a Polyamide 6 + PA 66/6 (Nylon 6+Nylon 66/6) material filled with 30% mineral. It is available in Europe. Primary attribute of Badamid® LC70 M30 TM-Z3: Flame Rated.

General Information				
Filler / Reinforcement		Mineral,30% Filler by Weight		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	5.6	--	%	
Equilibrium, 23°C, 50% RH	1.8	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3900	1500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	63.0	45.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	20	> 50	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	--	kJ/m ²	
23°C	18	30	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	200	--	kJ/m ²	
23°C	300 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Melting Temperature (DSC) 1	243	--	°C	ISO 3146
CLTE				DIN 53752
Flow	8.0E-5	--	cm/cm/°C	
Transverse	6.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms · cm	IEC 60093

Relative Permittivity (1 MHz)	3.90	4.10		IEC 60250
Dissipation Factor (1 MHz)	0.015	0.050		IEC 60250
Comparative Tracking Index	575	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	HB	--		
1.60 mm	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	285 to 305		°C	
Mold Temperature	80.0 to 110		°C	
NOTE				
1.	10 K/min			

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